

Continuous Light Absorption Photometer

Specifications:

- Filter-based instrument for measuring aerosol light absorption
- Instrument can be operated in automated mode
- Has 8 sample filter spots and 2 reference spots
- Uses solenoid valves to cycle between filter-spots
- Uses a single 47 mm filter for all spots
- Has built-in heater to reduce effects of humidity
- Measures filter attenuation at 467, 528 and 652 nm
- System is leak tight at reduced pressures and can be flown aboard aircraft
- Communicates via RS232 interface
- Precision of 0.3 Mm⁻¹ or better for 1 minute average
- Flow rate of 1 lpm or less
- Weighs less than 2 kg
- Uses 36 watts @ 120 VAC or 1.5 Amp @24 VDC with transformer or less
- Designed to change filter within 10 min
- Shall fit within 12x12x18 cm volume